Kentucky: Between Iraq and a Hard Place



Brian E. Kiser

Office of Broadband Outreach and Development Finance and Administration Cabinet



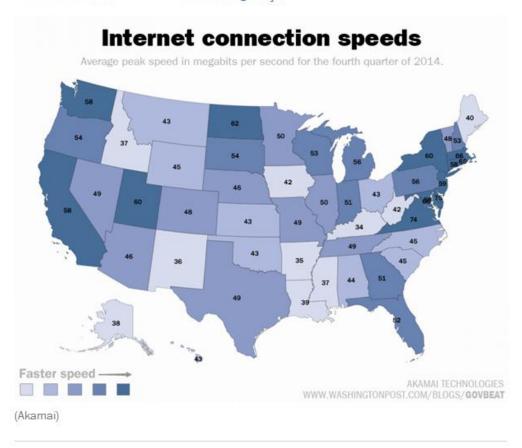


The Washington Post – March 26th, 2015

GovBeat

Map: The state of broadband in the states

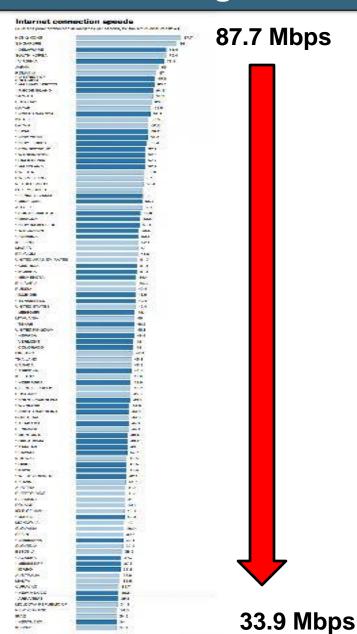
By Niraj Chokshi March 25 Follow @NirajC



Broadband speeds are expanding nationwide and the conditions seem good for even more growth.



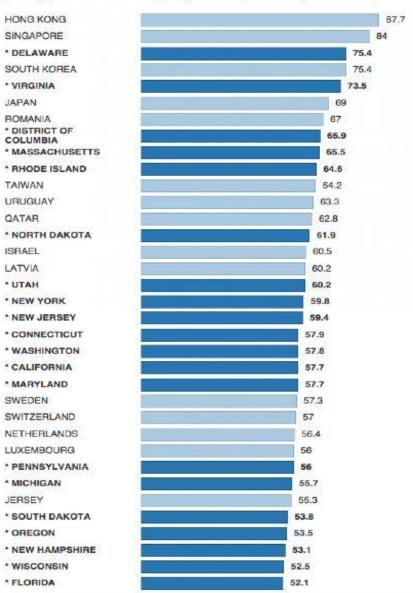




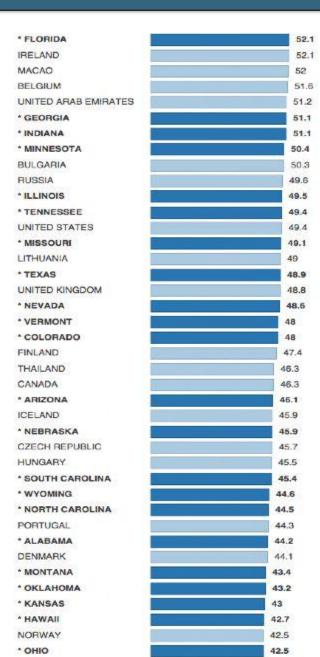


Internet connection speeds

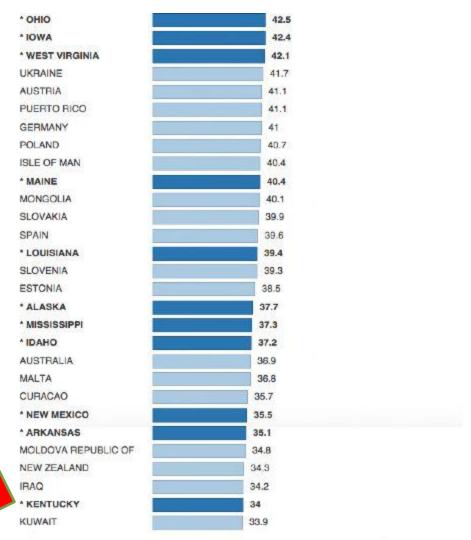
(Average peak connection in megabits per second, for the 4th quarter of 2014.)











The Washington Post

(Akamai)



Current State of Broadband

Accessibility + Adequate Speeds + Affordability + Awareness = ADOPTION

Bad

Limited high capacity fiber

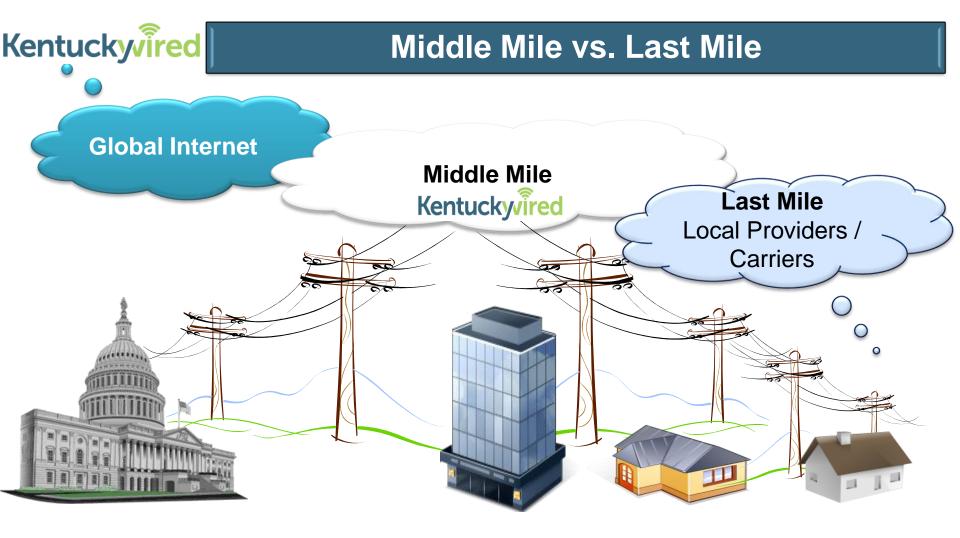
Kentucky is 46th in the nation for broadband availability

23% of Rural population has no access vs. 1.5% in Urban areas

Only 30% of Eastern Kentucky households adopt broadband vs. 60% urban adopters at the Federal Communication Commission's previous standard speed of 3 Mbps

Gap widens with the FCC's new standard speed at 25 Mbps

Worst



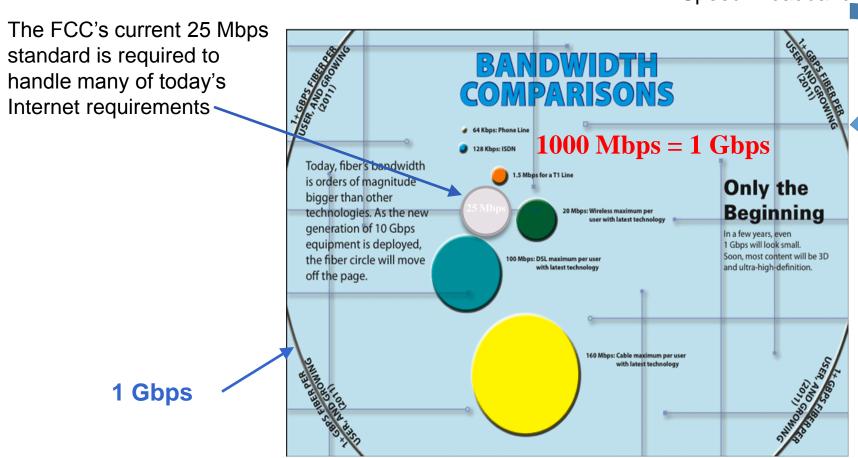
<u>Middle mile</u> often refers to the network connection between the worldwide Internet and the <u>last mile</u>. For instance, in a rural area, the middle mile would connect the town's network to a larger city.

<u>Fiber-To-The-Premises (FTTP)</u> - Internet Service Provider (ISP) installs fiber optic cable directly to a home or business.



Mbps vs. Gbps

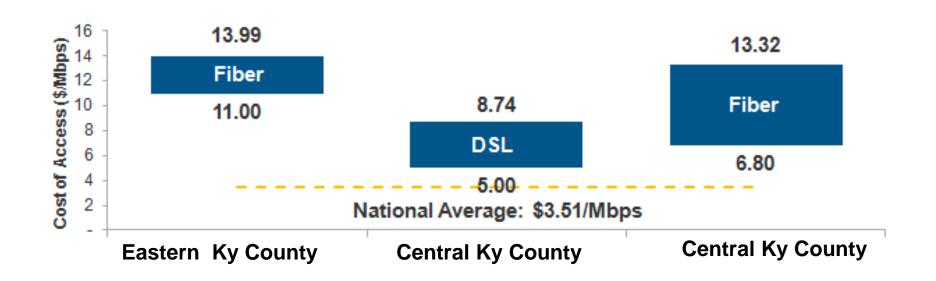
Most U.S. metro areas have access to Fiber and High Speed Broadband



*Mbps (megabits/sec) is *millions of bits per second*Gbps (gigabits/sec) is *billions of bits per second*



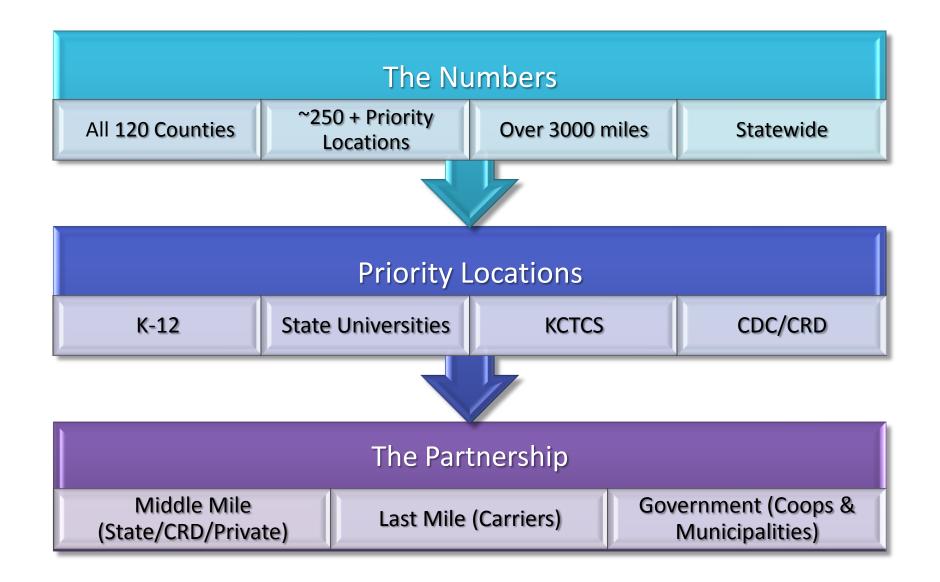
Driving Rationale



Residential Cost of Access



What is KentuckyWired?





Partners & Impact to Local Economy

Vendor Commitment

100+ Crews statewide

60% Local labor

8-12 % Minority hire

~\$175M Kentucky contracts

Jobs

Construction phase through 2018

- ~690 FTEs (at Peak)
 - ✓ Engineering
 - ✓ Construction Management
 - √ Field Crews













Jobs through life of the contract

- ~20 FTEs
 - ✓ Executive
 - ✓ Engineering
 - ✓ Management
 - ✓ Administration
 - ✓ Skilled Technicians



Time Line

Contract Awarded Initial Priority Fiber Routes Complete

Dec 2014

Dec 2015

Spring 2016

2018

Design
Complete
and
Construction
Underway

All Statewide Endpoints Complete



Community Strategy

Create a guide to help local leaders bring last mile service to their communities

- Provide step by step guidebook to obtain federal funding
 - ✓ Appalachian Regional Commission Grants
 - ✓ Community Connect thru Rural Utilities Service Grants
 - ✓ Rural Utilities Service (USDA Rural Development) Loans
- Establish contracts to assist with implementation of new community programs
- Create or expand Internet Access Centers
 - ✓ Libraries
 - √ Community Technology Centers
- Engage local private sector partners and local government



Questions?

Project & Contact Information

Website
KentuckyWired.ky.gov
Broadband.ky.gov

Email KentuckyWired@ky.gov

Telephone (502) 782-9549

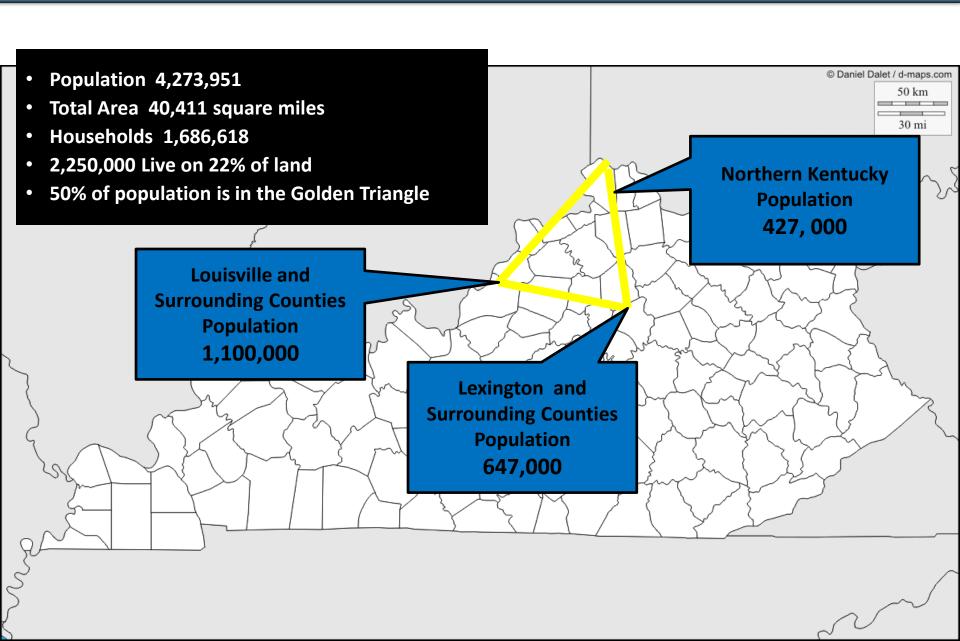


End of Presentation

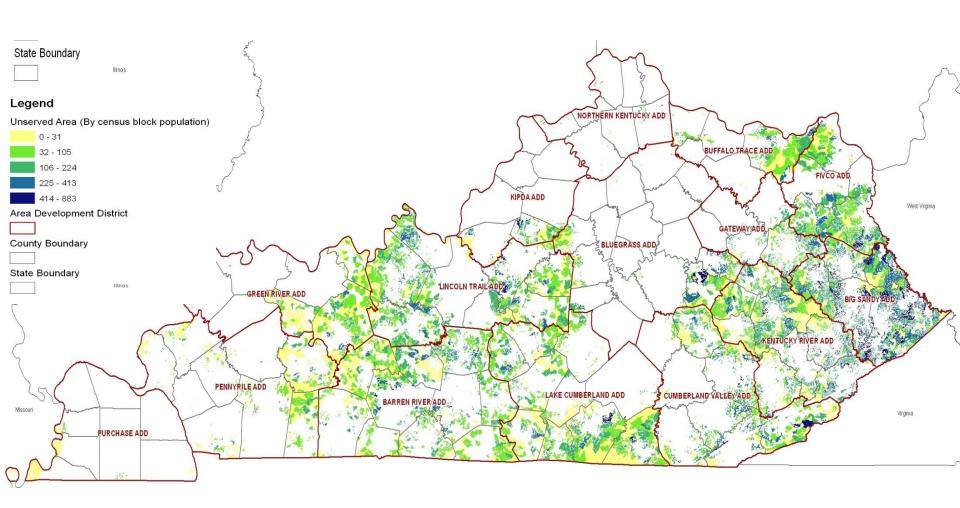
End of Presentation

Slides 17- 23 are supplemental historic information for discussion purposes

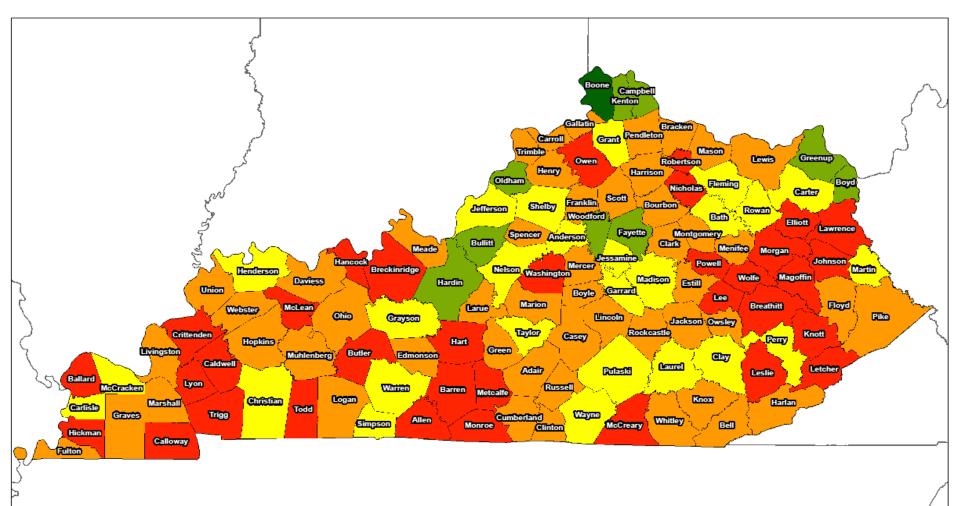
Population Density



Un-served Kentucky



Broadband Adoption



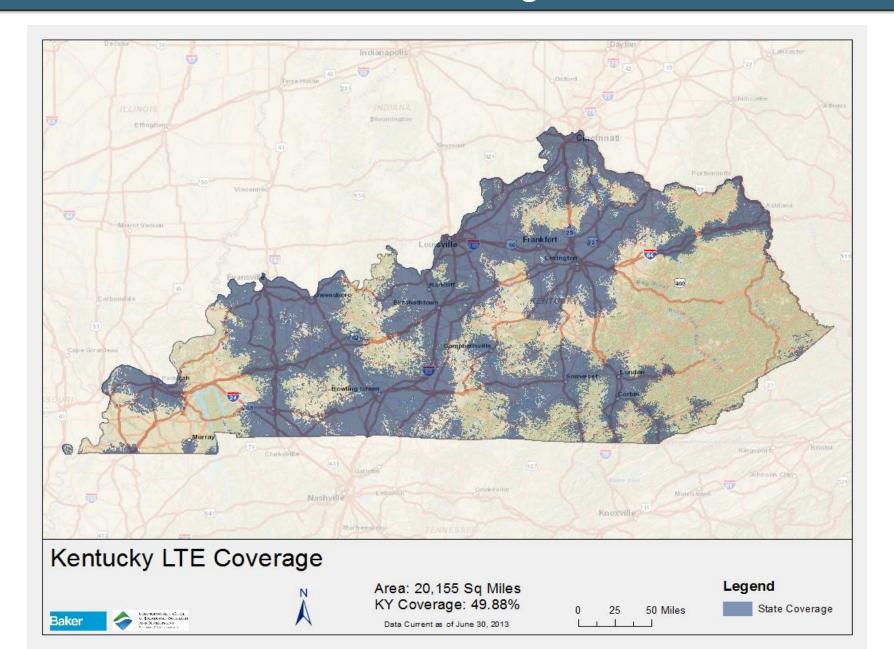
Household Broadband Adoption per County

Broadband defined as at least 768 kbps downstream and at least 200 kbps upstream

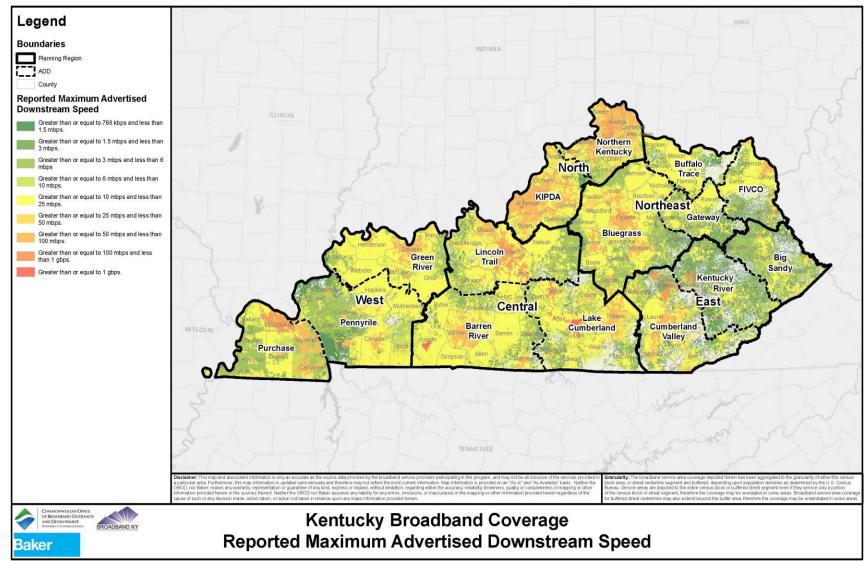
Source: FCC Form 477 | Data current as of June 30, 2013 | Geometry at County level



LTE Coverage

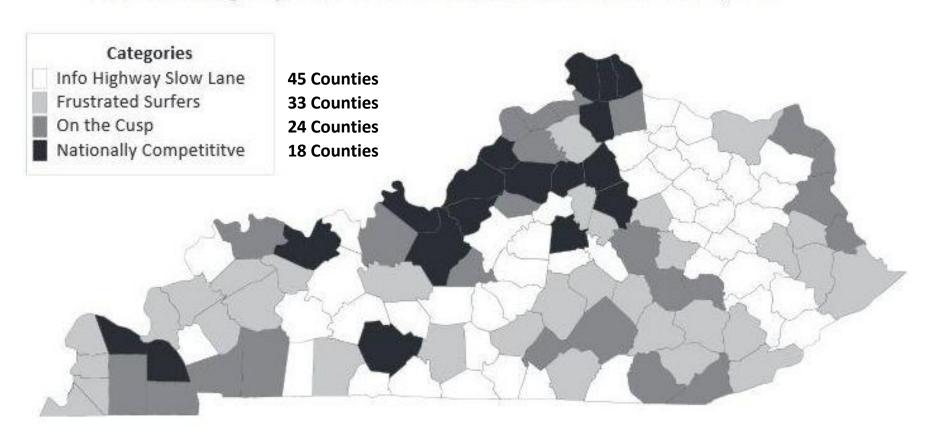


Broadband Speed Density



County Speed Rankings

Estimated High-Speed Internet Infrastructure & Utilization, 2012



The Internet in Kentucky: Life in the Slow Lane, Michael T. Childress

Our Partners

